

20030201.qrp v02_n818.qrl.20030201

Date: Sat, 1 Feb 2003 19:03:07 EST
From: qrp-l@Lehigh.EDU
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: QRP-L digest 2818

QRP-L Digest 2818

Topics covered in this issue include:

- 1) [145544] Picture of Rock Mite Audio Filter board
by Steven Weber <kd1jv@moose.ncia.net>
- 2) [145545] FS: Ten Tec Argonaut 509 station, including #405 Amp
by "Zoerb, Ron" <Ron_Zoerb@cable.comcast.com>
- 3) [145546] Re: (Fox) Lucky Again!
by "Garey Barrell" <k4oah@mindspring.com>
- 4) [145547] Re: (Fox) Lucky Again!
by W2AGN <w2agn@w2agn.net>
- 5) [145548] Re: New URL
by "Joe Martin" <km5cw@arrl.net>
- 6) [145549] Re: PCB Software ???
by "Karl F. Larsen" <k5di@zianet.com>
- 7) [145550] DXCC and 1000mpw
by W2AGN <w2agn@w2agn.net>
- 8) [145551] Re: PCB Software ???
by Steven Weber <kd1jv@moose.ncia.net>
- 9) [145552] FOXX3 Project
by "Bill Kelsey - N8ET - Kanga US" <kanga@bright.net>
- 10) [145553] Re: Shortest QRPp 40m CW confirmed QSO
by "blinn" <blinn@smgazette.com>
- 11) [145554] Pesky Texans = New Rules !!!!!
by Arthur Moe <kb7ww@easystreet.com>
- 12) [145555] Re: (Fox) Lucky Again!
by KD5NWA <KD5NWA@cbayona.com>
- 13) [145556] No secrets to supporting balanced lines in a number of ways
by "Stuart Rohre" <rohre@arlut.utexas.edu>
- 14) [145557] Solder
by "Stuart Rohre" <rohre@arlut.utexas.edu>
- 15) [145558] RE solder: NO solder will work unless you are using good tip
technique
by "Stuart Rohre" <rohre@arlut.utexas.edu>
- 16) [145559] Re: Radio Shack Power Supply
by "brian" <brian@iquest.net>
- 17) [145560] Heads Up
by "brian" <brian@iquest.net>
- 18) [145561] Buy XTALs... get a QRP Dummy Load Kit FREE!
by "Brice D. Hornback" <bdh@cyberbound.net>

- 19) [145562] FOX: W0UFO prelim log
by "Merton Nellis" <mertnellis@msn.com>
- 20) [145563] Re: Help! QSK T/R Switch
by John Seboldt <k0jd-1@seboldt.net>
- 21) [145564] Re: OT: Set your PC clock
by John Seboldt <k0jd-1@seboldt.net>
- 22) [145565] Audio CW filter ?
by Rick McKee <kc8aon@juno.com>
- 23) [145566] Re: Picture of Rock Mite Audio Filter board
by "Joe Martin" <km5cw@arrl.net>
- 24) [145567] Re: FOXX3 Project
by "Joe Martin" <km5cw@arrl.net>
- 25) [145568] Fwd: Near-Real-Time MUF Map
by Ed Tanton <n4xy@earthlink.net>
- 26) [145569] Re: Pesky Texans = New Rules !!!!!
by "George, W5YR" <w5yr@att.net>
- 27) [145570] How to support balanced feed line? (Responses)
by "Mike Mullins" <mmullins@mastnet.net>
- 28) [145571] Orlando Hamcation
by "Henry Freedenberg" <henryf@quartz.gly.fsu.edu>
- 29) [145572] Comparator Questions-Inquiring minds want to know
by "Henry Freedenberg" <henryf@quartz.gly.fsu.edu>
- 30) [145573] Re: No secrets to supporting balanced lines in a number of ways
by ve3ab@mail.mondenet.com
- 31) [145574] Fw: Radio Shack Power Supply
by "Alan Kaul, W6RCL" <alan.kaul@worldnet.att.net>
- 32) [145575] FOC contest
by Pete Burbank <plburbank@earthlink.net>
- 33) [145576] RE: Radio Shack Power Supply
by "Cecilio A. Bayona" <KD5NWA@cbayona.com>
- 34) [145577] Re: PCB Software ???
by Haines Brown <brownh@hartford-hwp.com>
- 35) [145578] Astron SS-18 switching supply?
by Kenneth Cooperstein <cprstn54@att.net>
- 36) [145579] Re: No secrets to supporting balanced lines in a number of ways
by Kenneth Cooperstein <cprstn54@att.net>
- 37) [145580] support balanced feed line
by "ss lyon" <sslyon@megalink.net>
- 38) [145581] DSWTUN03, release 0.90 ...
by "Bill, N4QA" <n4qa@hotmail.com>
- 39) [145582] 10 Turn Pots
by "brian" <brian@iquest.net>
- 40) [145583] Tragic News...
by "Rob Matherly" <w0jrm@arrl.net>
- 41) [145584] Alert
by <mgoins@usa.net>
- 42) [145585] USA-QRP
by Larry Cahoon <lejek@erols.com>

- 43) [145586] What's an IF transformer?
by Nick Kennedy <nkennedy@tcainternet.com>
- 44) [145587] Re: FOC contest
by "Stephane Collas" <stephane.collas@wanadoo.fr>
- 45) [145588] Re: FOC contest
by W2AGN <w2agn@w2agn.net>
- 46) [145589] Re: FOC contest
by George Fremin III - K5TR <geoiii@kkn.net>
- 47) [145590] Re: Comparator Questions-Inquiring minds want to know
by David Hinerman <WD8CIV@worldnet.att.net>
- 48) [145591] Flachback to 1986
by "Scott Rosenfeld [N7JI]" <ham@w3eax.umd.edu>
- 49) [145592] RE: What's an IF transformer?
by "Sverre Holm - LA3ZA" <la3za@qsl.net>
- 50) [145593] Re: FOC contest
by Pete Burbank <plburbank@earthlink.net>
- 51) [145594] RE: W0UFO FOX
by "Merton Nellis" <mertnellis@msn.com>
- 52) [145595] Gooley gray pudding reactance calculator
by Nick Kennedy <nkennedy@tcainternet.com>
- 53) [145596] Koss Headphones
by "Larry" <w5wlb@gbronline.com>
- 54) [145597] TenTec "Goodies" FS
by "Ken Simpson, W8EK" <W8EK@fdt.net>
- 55) [145598] Re:I.F. transformer turns/impedance
by "W8TIF - Karl" <kkanalz@gcecis.com>
- 56) [145599] ZM-2 or SW-40+ trouble
by "Tom" <kf4yyd@adelphia.net>
- 57) [145600] Who had K2/100 for sale?
by "Doc K0EVZ" <dock0evz@earthlink.net>
- 58) [145601] Got reply re K2/100 already [g]
by "Doc K0EVZ" <dock0evz@earthlink.net>
- 59) [145602] Re: What's an IF transformer?
by Ingo Meyer DK3RED <dk3red@gmx.net>
- 60) [145603] Does anyone Really live in Delaware??
by "Tom" <thom2@worldnet.att.net>
- 61) [145604] FS: Ten-Tec Century 22 & accessories
by "Dave Redfearn" <n4elm@attbi.com>
- 62) [145605] Copper crystals
by Steven Weber <kd1jv@moose.ncia.net>
- 63) [145606] Can You Help Me ID These Parts??
by Mark Schoonover <schoon@amgt.com>
- 64) [145607] OT Columbia
by N0BN@aol.com

Date: Fri, 31 Jan 2003 14:59:44 -0500

From: Steven Weber <kd1jv@moose.ncia.net>
To: qrp-1@lehigh.edu
Subject: [145544] Picture of Rock Mite Audio Filter board
Message-ID: <3.0.6.32.200301311145944.007b59c0@mailhost.ncia.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Just put up a picture of the R/M Audio filter. Just click on my URL below and scroll down a bit.

While your there, check out my new multi-band DDS rig which fits in an Altoids tin!

72,
Steve, KD1JV
"Melt Solder"
White Mountains of New Hampshire
<http://www.qsl.net/kd1jv/>

Date: Fri, 31 Jan 2003 13:18:19 -0700
From: "Zoerb, Ron" <Ron_Zoerb@cable.comcast.com>
To: "'QRP-1 Messages'" <qrp-1@lehigh.EDU>
Subject: [145545] FS: Ten Tec Argonaut 509 station, including #405 Amp
Message-ID: <0224526940E0444AB1D970FD35C504230EA9FB@entcoexch01.broadband.att.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset=iso-8859-1
Content-Transfer-Encoding: 7bit

Greetings,

I have for sale a very nice Ten Tec Argonaut 509 station consisting of the following equipment.

- Ten Tec 509 Argonaut, Serial # 02239. Very nice original condition with near perfect front panel, original knobs and tight dial string. PTO seems to be fine. Manual included.
- Model 252 power supply. Has a couple of dings/scuff marks in the wood grain vinyl.
- Model 208 CW Filter with 3 position switch. Works good.
- Model 206 Crystal Calibrator. Works as described in the manual.

- Model 405 Amp. Power is variable up to 50 watts depending on the output of the exciter. Manual included.

Digital pictures can be provided upon request. This station is assembled in working order and is available for a sked if desired on either CW or SSB on any band (10, 15, 20, 40 or 80). It has nabbed a few QRP-L Fox as well as some nice DX contacts in CQWW. It is a fun station to operate and offers surprising receiver performance. This was to be a "keeper" in my Ten Tec gear accumulation but the job situation is dictating otherwise.

Proof of your Ham license with operating privileges for the HF bands would be required. I would prefer to sell as a package so will not consider selling the 405 amp separately unless someone wants everything but that first.

Asking \$425 and will split the shipping. The best way to contact me would be via e-mail at KI0II@arrl.net.

Thanks for reading and 72

Ron KI0II

Date: Fri, 31 Jan 2003 15:20:54 -0500
From: "Garey Barrell" <k4oah@mindspring.com>
To: <ThomasPalmer@colliergov.net>,
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [145546] Re: (Fox) Lucky Again!
Message-ID: <000401c2c966\$419312c0\$6501a8c0@hp>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

At the risk of starting something, (I'm not sure what!,) I would like to make the following observation.

MANY hounds were calling N0TK on his frequency last night. Rather than being caused by incompetent hounds, it is the result of the FOX answering calls on his own frequency!! Now this is easy to do, depending upon how you work your way through the pile, when you're running for your life! You just tune the receiver up (or down) to the next station, and pretty soon you're at your transmitting frequency, or even past it!

But rather than "helpers" sending "UP" every 30 seconds, it is up to the FOX to answer hounds calling _where HE wants the pile to gather_ ! The FOX controls the pack ...

73, Garey - K40AH
Atlanta

----- Original Message -----

From: "palmer_t" <ThomasPalmer@colliergov.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Sent: Friday, January 31, 2003 2:33 PM
Subject: Re: (Fox) Lucky Again!

>
> One hound forgot to activate his XIT for a few seconds and
transmitted his
> call on top of N0TK. No PROBLEMO! That happens once in a while.
He
> noticed the mistake right away.
>
> Tom, N1TP
> Naples, Florida

Date: Fri, 31 Jan 2003 15:34:36 -0500 (Eastern Standard Time)
From: W2AGN <w2agn@w2agn.net>
To: ThomasPalmer@colliergov.net, qrp-1@Lehigh.EDU
Subject: [145547] Re: (Fox) Lucky Again!
Message-ID: <3E3ADDDC.000001.28911@w2agn>
MIME-version: 1.0
Content-type: Text/Plain
Content-transfer-encoding: 7BIT

He knew he was in danger of being torn to pieces by a pack of wild, rabid hounds!

+---+---+---+ John L. Sielke
|W||2||A||G||N| <http://www.w2agn.net> [UPDATED]
+---+---+---+ Ex-K3HLU,TF2WKT,W7JEF,W4MPC,N4JS

-----Original Message-----

One QRO station starting calling "CQ" on top of N0TK. Many Hounds informed him that the frequency was busy. The QRO operator stopped transmitting

immediately.

Tom, N1TP
Naples, Florida

.

Date: Fri, 31 Jan 2003 14:36:45 -0600
From: "Joe Martin" <km5cw@arrl.net>
To: "qrp-1" <qrp-1@Lehigh.EDU>
Subject: [145548] Re: New URL
Message-ID: <001501c2c968\$79fcfd40\$d043adcf@oemcomputer>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Great tour James, thanks for taking the time and effort to share your
experience with us.

73 de KM5CW Joe
FISTS #4217 QRP/ARCI #11368 NETXQRP#42
GRID-EM13kf
(<http://web.wt.net/~km5cw>)

- _.- _.-.. _.-.

----- Original Message -----

From: "James P. Osburn, P.E." <j.p.osburn@ieee.org>
Subject: New URL

> I have a new URL. Here's a list of stuff that might be of interest with
the new URL.

> Jim, WD9EYB

Date: Fri, 31 Jan 2003 15:29:51 -0700 (MST)
From: "Karl F. Larsen" <k5di@zianet.com>
To: Haines Brown <brownh@hartford-hwp.com>
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [145549] Re: PCB Software ???

Message-ID: <Pine.LNX.4.44.0301311528030.2241-100000@bucket.dog>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi Haines, yes Red Hat 8 has dia from an external window. I played with it but didn't see any electronic symbols.

On Fri, 31 Jan 2003, Haines Brown wrote:

> You will undoubtedly get more expert views than mine, but what comes
> to mind is xccircuit (easy to use) and the much more sophisticated
> eagle program by cadsoft. The latter not only designs a schematic, but
> can also be integrated with B2 Spice and with board layout
> design. Both are open source software/freeware for Linux. With at least
> the RedHat distribution of Linux comes the dia application, a general
> drawing program with a library of electronic circuit symbols. Been some
> time since I played with it, but my recollection is that it works.
>
> Haines Brown KB1GRM
>

--

- Karl Larsen k5di Las Cruces, NM Az ScQRPions -

Date: Fri, 31 Jan 2003 17:34:29 -0500 (Eastern Standard Time)
From: W2AGN <w2agn@w2agn.net>
To: qrp-l@lehigh.edu
Subject: [145550] DXCC and 1000mpw
Message-ID: <3E3AF9F5.00000F.28911@w2agn>
MIME-version: 1.0
Content-type: Text/Plain
Content-transfer-encoding: 7BIT

Finally worked AH3D, although I ended up going to 100W to do it. (shame, shame. Just checked the tallies, and that makes country #200 since I got this call in August 2000. Of those, 134 are QRP, 187 are CW. Not a big time DXer, but I like to play around once in a while.

OK, so I had to brag a little.

What I would REALLY like is to make a 1000 m/pw QSO on 160 meters. That would give me 10 band 1000 m/pw. I got the QSOs on 80 through 6 meters, even confirmed. For some reason, even with the feeders of my 300' loop tied

together and fed against ground, I can't quite seem to make it.

+---+---+---+ John L. Sielke
|W||2||A||G||N| <http://www.w2agn.net> [UPDATED]
+---+---+---+ Ex-K3HLU,TF2WKT,W7JEF,W4MPC,N4JS

Date: Fri, 31 Jan 2003 17:39:34 -0500
From: Steven Weber <kd1jv@moose.ncia.net>
To: Dick@trickie.com
Cc: qrp-1@lehigh.edu
Subject: [145551] Re: PCB Software ???
Message-ID: <3.0.6.32.20030131173934.007af540@mailhost.ncia.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Dick,

Get a copy of CirCad 98 from <http://www.holophase.com>

It's a lot more user friendly than Eagle Cad (which I found to be a total PITA) The only limitation with CirCad is you can't make Gerber files or export to a different file type - big deal. It's best feature is a drawing screen uncluttered with useless buttons, by using the old DOS pull down menu technique. And if you learn a few of the two letter keyboard commands, it really speeds things up.

72,

Steve, KD1JV

"Melt Solder"

White Mountains of New Hampshire

<http://www.qsl.net/kd1jv/>

Date: Fri, 31 Jan 2003 17:42:41 -5
From: "Bill Kelsey - N8ET - Kanga US" <kanga@bright.net>
To: qrp-1@Lehigh.EDU, GQRP@yahooogroups.com
Subject: [145552] FOXX3 Project
Message-ID: <200301312242.h0VMg5TJ025326@hagus.bright.net>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT

Since kit production at Kanga UK is on hold until the company is sold, I decided to see if I could build up an "Americanized" version of the FOXX3

xcvr. I am waiting on the arrival of the 2N2907A final transistor from Mouser - other than that, the FOXX3 for the Colonies is complete. Check it out at:

<http://www.bright.net/~kanga/foxx3/>
73 - Bill - N8ET
Kanga US
kanga@bright.net
<http://www.bright.net/~kanga/>
419-423-4604

Date: Fri, 31 Jan 2003 15:24:17 -0800
From: "blinn" <blinn@smgazette.com>
To: <k1nun@netscape.net>,
"Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [145553] Re: Shortest QRPP 40m CW confirmed QSO
Message-ID: <006301c2c97f\$e16ad620\$d070ef42@blinn>
MIME-Version: 1.0
Content-Type: text/plain;
charset="utf-8"
Content-Transfer-Encoding: 7bit

Eric, that is a neat, well written story. Very nice and amusing. I can visually see the scene unfolding and the look of discovery on that ops face when he turned and saw you operating your "portable" station.

You win the prize!

Bill - WA7TQK

[SMGazette.com E-mail is scanned for viruses by Declude Virus]
[Visit us on the web at SMGazette.com]

Date: Fri, 31 Jan 2003 23:49:40 +0000
From: Arthur Moe <kb7ww@easystreet.com>
To: ThomasPalmer@colliergov.net, qrp <qrp-l@Lehigh.EDU>,
UDOGS <udogs@w0ch.com>
Subject: [145554] Pesky Texans = New Rules !!!!!
Message-ID: <3E3B0B94.E0134D80@easystreet.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

palmer_t wrote:

>

> I reiterate: something needs to be done about the "Pesky Texans." They
> profess being old codgers who need all the advantages they can muster, but
> we know better!

They already have an advantage. Location Location Location Location !!!!!

>

> Band conditions during last evening's hunt were exceptionally good here from
> SW Florida. I expect the "Swamp Rats" did well, but cannot confirm 2 "clean
> sweeps" for the Swamp Rats. We "Swamp Rats" need as many "clean sweeps" as
> possible because "The Underdogs" are creeping up on us - a pelt at a time.

>

Yes, Tom "The Underdogs" are playing catch up !!!!! Now then what can we do
about those "Pesky Texans." Might we pressure the Rules Committee to change
the way the hunt is scored. Maybe instead of sending power as part of the
report we could send our time zone (Et, Ct, Mt, or Pt) then the Fox could apply
a Multiplier based on on the difference between his time zone and the stations
worked. If in same time zone 1x, two time away zones 2x, three time zones 3x,
four time zones 4x etc. Then this scores could be used to determine which team
wins.

This would level the playing field for the Et and Pt zone stations and put
the "Pesky Texans" on notice that they will no longer have a leg up on the
rest of us.

Submitted with tongue firmly in check.

Art

KB7WW

Date: Fri, 31 Jan 2003 18:03:35 -0600

From: KD5NWA <KD5NWA@cbayona.com>

To: "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>

Subject: [145555] Re: (Fox) Lucky Again!

Message-ID: <5.2.0.9.0.20030131175945.00a88408@pop.cbayona.com>

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"; format=flowed

I heard that they ship tons of ozone depleting chemicals to the poles to
make sure the ionization of the atmosphere shifts all radio waves to Texas.
Your right, something must be done about the pesky Texans, we require them
to have a visa when they come to the Arkansas border.

At 01:33 PM 1/31/2003, palmer_t wrote:

>I reiterate: something needs to be done about the "Pesky Texans." They
>profess being old codgers who need all the advantages they can muster, but
>we know better!

>

>Tom, N1TP

>Naples, Florida

Cecil

KD5NWA

Date: Fri, 31 Jan 2003 18:48:41 -0600

From: "Stuart Rohre" <rohre@arlut.utexas.edu>

To: <mmullins@mastnet.net>, <qrp-1@Lehigh.EDU>

Subject: [145556] No secrets to supporting balanced lines in a number of ways

Message-ID: <000b01c2c98b\$aa77a4c0\$4e100a0a@rohredt2000>

Mike,

We use nylon twine at Field Day.

We also drape parallel line over dry tree limbs, or tie the nylon onto limb and hang ladder line from it. Plastic bread ties work to hold it to tree small limbs as well. Nylon cable ties can be used if you have some surplus source of them at low cost.

We have also found electric fence standoff insulators in Ranch stores or Home Depots near rural ranch areas. They are about 5 plus inches high, and the rectangular end section has a lock in scheme that also holds 450 ohm ladder line as well as it held the intended electric fence wire. These come with a nail in base, or take that out and use a long screw to hold it to tree or house side.

As you mention, the Radio Shack screw in and clamp on mast 300 ohm TV feedline standoffs also work well. You can grip either the full width of 300 ohm line, in the plastic insulator of the "eye" or one side of the 450 ohm line.

Just gently close the wire eye tighter to hold the insert plastic against your line.

Some folks have used pvc pipe cut to hold ladder line. See the Wireman catalog, Wireman.com or "Aerials III" or whichever edition of his fine antenna and accessory guide he now sells. He cuts a short pipe section and drills one side and slots the other to hold the line.

There is a right angle 1/2 inch fitting for pvc water pipe that includes a flange with screw hole.

You could use that, and cut a slot for line to stand in a piece of pipe sticking out of the flange fitting. Hot glue the line in the slot, or tie it in with fishing line, or similar twine, plastic tie or ?

Bringing the line off from the vertical dipole, you could make yourself some PVC water pipe "telephone poles" to support the feedline if you have to run far from the dipole to the shack. You can bring the line off the vertical dipole at 45 degrees angle to the ground and it will work as well as right angle lead off, ie. you cannot tell the difference if there is nothing nearby to couple to the slant line. Have done this at the beach, and then laid line on the sand.

The bowline is a good knot to make a sling for the parallel line from some insulating plastic line or nylon to support it along its run from the feedpoint to wherever you convert to a vertical drop to the shack.

Hope the above ideas are helpful. Those electric fence standoffs came in yellow and black. The black has held up in the UV sunlight conditions of Central Tx. We use them to hold a loop off the flat roof of our club station shack.

72,

Stuart K5KVH

Date: Fri, 31 Jan 2003 18:50:45 -0600
From: "Stuart Rohre" <rohre@arlut.utexas.edu>
To: <leighhawkes@ns.sympatico.ca>, <qrp-1@Lehigh.EDU>
Subject: [145557] Solder
Message-ID: <001301c2c98b\$f4060eb0\$4e100a0a@rohredt2000>

Leigh, I rest my case, like I said: "Solder is like toothpaste, personal preferences and prejudices and all that". Thanks for another view. I think you will find it improved especially if you use the finer gauges.

73,

Stuart K5KVH

Date: Fri, 31 Jan 2003 18:57:56 -0600
From: "Stuart Rohre" <rohre@arlut.utexas.edu>
To: <qrp-1@Lehigh.EDU>

Subject: [145558] RE solder: NO solder will work unless you are using good tip technique

Message-ID: <001401c2c98c\$f4f18ab0\$4e100a0a@rohredt2000>

Leigh reminded me to comment that in using all three brands I have used, I also use a wet sponge, and clean the tip of the iron before each joint.

I use the standard Weller iron tips or the Ungar iron tips, and they are plated.

I tin them before use, and frequently wipe them and retin during use. My Savbit joints are shiny, and my Kester are not, so differing dwell time on the joint, personal iron, etc. can all make one solder better for YOU than another. We all tend to work a certain way, this is not good or bad, but it may influence how our tools and materials work with us. Try, and try again, and you can find one or another solder flux that does not need cleaning; for, as Leigh states; probably more harm has been done by excessive board flux cleaning than not cleaning, if there is little flux residue.

However, note the so called water clean fluxes; per their manufacturers; are designed to be used with professional cleaning equipment which is pressure washing, and may include powered brushes.

72, Stuart K5KVH

Date: Fri, 31 Jan 2003 20:38:41 -0500

From: "brian" <brian@iquest.net>

To: <KD5NWA@cbayona.com>,

"Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Subject: [145559] Re: Radio Shack Power Supply

Message-ID: <015901c2c992\$a7650960\$b2602bd1@bmurrey2K>

MIME-Version: 1.0

Content-Type: text/plain;

charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

I just went to the shack, forgot my coupon...they pulled it up at 59.97, no coupon required as it is now listed as SOWG (Sold Out When Gone).

This is one Jim Dandy of a Power Supply! 25A will run my whole setup.

The 59.97 is in the computer until 03/02/03, have your local RS check

stock, I found 27 total were available in Indy.

73

----- Original Message -----

From: "KD5NWA" <KD5NWA@cbayona.com>

To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Sent: Thursday, January 30, 2003 7:19 PM

Subject: Radio Shack Power Supply

> Does anyone have any experience using the Radio Shack 25 Amp power supply?

> They have a coupon for it right now.

>

> Catalog Number:22-510

> Regular Price:119.99 - With Coupon: 59.99

>

> <<http://www.radioshack.com/Coupons/Coupons.asp>>

>

> Offer good until 02/01/03

>

>

> I need a supply for my workbench and the price seems right.

>

> Cecil

> KD5NWA

>

>

>

Date: Fri, 31 Jan 2003 20:43:05 -0500

From: "brian" <brian@iquest.net>

To: "QRPP-l" <QRPP-I@yahoogroups.com>, "QRP-L" <qrp-l@Lehigh.EDU>, "Flying Pigs" <fpqrp-l@fpqrp.com>

Subject: [145560] Heads Up

Message-ID: <018301c2c993\$4490a1e0\$b2602bd1@bmurrey2K>

MIME-Version: 1.0

Content-Type: text/plain;
charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

Radio Shack has a set of Koss headphones on blowout until Feb 3rd.

Cat # 33-1189

\$9.99 sale - regular \$29.99

I've used these with my NC40A in the field and I like them very much.

<http://www.radioshack.com/Coupons/Coupons.asp>

```
=====
KB9BVN/QRP - New Whiteland IN - EM69WN
QRP-ARCI #10223 QRP-L #1540 FIST #5695
FISTS CC #764 - Proud Member ARRL
HEATH HW-9 @ 2W or NORCAL 40A @ 1.3W
INTO INFAMOUS AF4PS ATTIC DIPOLE
SOC #400 AND FLYING PIGS QRP #-57
=====
```

Date: Fri, 31 Jan 2003 20:55:44 -0500
From: "Brice D. Hornback" <bdh@cyberbound.net>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [145561] Buy XTALs... get a QRP Dummy Load Kit FREE!
Message-ID: <00a101c2c995\$08783180\$6501a8c0@cstltn01.in.comcast.net>
MIME-version: 1.0
Content-type: text/plain; charset=iso-8859-1
Content-transfer-encoding: 7BIT

>From now through Sunday... purchase a set of QRP XTALs and receive a FREE QRP Dummy Load resistor kit with your purchase! This 50-ohm dummy load kit consists of a set of four high-quality 1-watt 200 Ohm Metal Oxide resistors and a detailed assembly manual. Here's the details on the QRP XTALs:

Frequencies:
21.060 MHz (15m)
14.060 MHz (20m)
10.106 MHz (30m)
7.040 MHz (40m)
3.579 MHz (80m)

XTALs Set of Five- \$20.00 plus shipping includes the bonus QRP Dummy Load kit!

Click here:

<http://www.QRPp-I.com>

Build something... get it on the air... and have a GREAT weekend!!!

73/72/71! de Brice KA8MAV

Date: Fri, 31 Jan 2003 20:39:21 -0600
From: "Merton Nellis" <mertnellis@msn.com>
To: qrp-l@lehigh.edu
Subject: [145562] FOX: W0UFO prelim log
Message-ID: <F37mRBaYFkuutSgc0rB000000038@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

Here's my prelim log. Please let me know about errors.
Thanks guys!

Log of	W0UFO	FOX	1-31-03	UTC		
TIME	STATION	HIS	MINE	SPC	NAME	POWER
0201	K7TQ	559	559	ID	RANDY	5W
0201	N4ROA	559	559	VA	DAN	5W
0202	N4BP	559	559	FL	BOB	5W
0202	N3BJ	559	559	VA	ALAN	5W
0203	VE6EX	559	559	AB	DAN	5W
0204	K40AH	559	559	GA	GAREY	5W
0206	K6WJT	559	559	CA	MIKE	5W
0207	VE5RC	559	559	SK	BRUCE	5W
0208	VE6KG	559	559	AB	NORM	5W
0208	KD2JC	559	569	NJ	JOE	5W
0209	AA50	559	559	LA	VERN	5W
0210	KK5LD	559	559	TX	DAN	5W
0211	W2AGN	559	559	NJ	JOHN	3W
0212	K5EOA	559	559	LA	WAYNE	5W
0213	VE6JAZ	559	559	AB	ROB	5W
0214	W5USJ	559	559	TX	CHUCK	5W
0215	AE4Y	559	559	GA	KENT	5W
0216	K5AIC	559	559	MS	HERB	5W
0217	K5JHP	559	559	TX	BILL	5W
0218	W2XN	559	559	FL	FRED	5W
0220	KI0II	559	559	CO	RON	5W
0221	W6ABC	559	559	PA	JACK	5W
0222	VA6RF	559	559	AB	EARL	5W
0223	KB3EOF	559	559	MD	SANDY	5W
0224	K5DW	559	559	TX	DON	5W

0224	N1TP	559	559	FL	TOM	5W
0225	W5YR	559	559	TX	GEORGE	5W
0226	AB5XQ	559	559	AR	BILL	5W
0227	K4BYF	559	559	FL	JACK	5W
0228	WA8NTA	559	559	CO	DICK	5W
0229	K5FSE	559	599	GA	JACK	5W
0230	K5SBR	559	559	TX	ED	75W
0231	N1FN	559	559	CO	ET	5W
0232	N2WW	559	559	CO	LARRY	5W
0233	WS4S	559	559	TN	CONARD	5W
0234	K5DI	559	559	NM	KARL	5W
0235	KK5NA	559	559	TX	JOE	5W
0236	K40AH	DUPE				
0237	KR5C	559	559	TX	GEORGE	5W
0237	K5JHP	559	559	TX	BILL	5W
0238	W3KC	559	579	MD	CHAS	5W
0239	N0RC	559	559	CO	ROD	5W
0240	K3PH	559	599	PA	BOB	5W
0241	WB4X	559	559	NC	BRENT	5W
0242	KC2CK	559	599	NY	DON	5W
0243	AC7A	559	559	AZ	TOM	5W
0244	W8SFF	559	559	MI	STEVE	5W
0245	KR0U	559	559	CO	TIM	5W
0246	NQ7X	559	559	AZ	FLOYD	5W
0247	K3IU	559	559	RI	KEN	5W
0248	K5SR	559	559	TX	DALE	5W
0249	NN1F	559	559	NH	ARON	5W
0250	N5ZE	559	559	TX	LEW	5W
0251	K4GT	559	559	GA	JIM	5W
0252	KD5UWV	559	559	TX	NORTEX	5W
0255	N0UR	559	559	MN	JIM	5W
0255	AB9CA	559	559	AL	DAVE	5W
0257	KB7WW	559	559	OR	ART	5W
0258	W2RBA	559	569	NY	JOE	5W
0259	KB6CYN	559	559	CA	TREV	5W
0300	KG4LDY	559	559	VA	JIM	5W
0301	AC5JH	559	559	OK	TOM	5W
0303	W8YMO	559	559	OH	HARRY	5W
0304	KQ5U	559	559	TX	TERRY	5W
0305	KC9LC	559	559	VA	RANDY	5W
0306	KC1FB	559	559	CT	JIM	500MW
0307	NA8M	559	559	MI	JOHN	5W
0307	K5ZTY	559	559	TX	BILL	5W
0308	AD6JV	559	559	VA	BILL	5W
0309	W3DCG	559	569	GA	DARIN	5W
0310	KF2P	559	559	NY	NICK	2W
0311	K8CV	559	559	MI	WALT	5W
0313	W4YN	559	599	NC	TIM	5W

0314	NN5E	559	559	TX	VERN	5W
0315	AF4AT	QSB				
0316	NK6A	QSB				
0317	K0PC	559	559	MN	PAT	5W
0318	W5TB	559	559	TX	DOC	5W
0319	K6VNX	559	559	CA	ARLEN	5W
0321	WB6BWZ	559	559	GA	MATT	5W
0323	WR50	559	559	TX	DAVE	5W
0325	VA6MJT	559	559	AB	MIKE	5W
0326	N5IB	559	559	AZ	JIM	5W
0327	AJ4AY	559	559	AL	JAY	5W
0330	K0MAX	559	549	MN	MAX	1W
0331	W7KXB	559	599	AZ	BILL	5W
0332	N0AR	559	599	MN	SCOTT	5W
0333	K6MMC	559	559	CA	MIKE	5W
0335	N7CQR	559	559	OR	DAN	5W
0336	WW7Y	559	559	UT	STEVE	5W
0339	K5PSH	559	559	TX	JERRY	5W
0352	K5TR	559	559	TX	GEO	500MW
0359	N0TK	FOX				
0400	W0UFO	FOX				

 The new MSN 8: smart spam protection and 2 months FREE*
<http://join.msn.com/?page=features/junkmail>

 Date: Fri, 31 Jan 2003 20:49:56 -0600
 From: John Seboldt <k0jd-1@seboldt.net>
 To: qrp-1@lehigh.edu
 Subject: [145563] Re: Help! QSK T/R Switch
 Message-ID: <5.1.0.14.0.20030131204937.00ac4530@seboldt.net>
 Mime-Version: 1.0
 Content-Type: text/plain; charset="us-ascii"; format=flowed

At 05:14 PM 1/26/03 -0800, you wrote:
 >In the spirit of qrp evangelism, I loaned out my QRP Notebook second edition
 >a few years ago to a guy that I used to work with. Well, we now work at
 >different places, and I want to make a QSK switch to use between different
 >TX's and RX's. I haven't seen such a switch on the web. Anyone know of
 >either a web reference or have a circuit that's e-mailable?

Take a look at my approach, shamelessly lifted from the Ten-Tec Argosy:

<http://www.seboldt.net/k0jd/r2t2stn.html#transmit>

True PIN diodes would probably work better, but the 1N4007 rectifiers do "all right". Check Allied Electronics for the ON Semiconductor (formerly Motorola) MPN PIN diodes.

The big issue would be to make sure the switch stays "open" long enough after key-up that you don't fry your front end(s) with the full power of your transmitter. This will depend on your transmitters' keying envelopes. Adjust the .47 uF capacitor appropriately.

John K0JD
Milwaukee, WI

Date: Fri, 31 Jan 2003 20:50:49 -0600
From: John Seboldt <k0jd-1@seboldt.net>
To: w8diz@fpqrp.com;; qrp-1@lehigh.edu
Subject: [145564] Re: OT: Set your PC clock
Message-ID: <5.1.0.14.0.20030131205041.00acc8d0@seboldt.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

At 12:54 PM 1/27/03 -0500, you wrote:
>I thought I would copy QRP-L on this as it might be
>of use to some folks here...
>
>Source code is available upon request (not much to it)

Don't bother with Visual Basic. Just get nisttime32.exe from NIST itself -

<http://www.boulder.nist.gov/timefreq/service/its.htm>

Will connect to several different servers, simple program, no registry entries.

John K0JD
Milwaukee

Date: Fri, 31 Jan 2003 22:13:59 -0500
From: Rick McKee <kc8aon@juno.com>
To: fpqrp-1@mpna.com, qrp-1@Lehigh.EDU

Subject: [145565] Audio CW filter ?

Message-ID: <20030131.221402.9014.1.kc8aon@juno.com>

Anyone know of a schematic and where to find it on the web for a small audio CW filter one could build and install inside a radio like The old Yaesu FT-7 ? I have an old MFJ CWF-2 filter, but it's just too darn big to squeeze into that crowded rig !

72/73 de: Rick McKee, KC8AON <> Willow Wood, Ohio
SW 40+, HW-8, Yaesu FT-7, Homebrew 6V6 tube TX & Surplus GRC 109 RX

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QRP-L #2112, FPqrp #33, AR QRP #269

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Date: Fri, 31 Jan 2003 21:36:17 -0600

From: "Joe Martin" <km5cw@arrl.net>

To: "qrp-l" <qrp-l@Lehigh.EDU>

Subject: [145566] Re: Picture of Rock Mite Audio Filter board

Message-ID: <004c01c2c9a3\$15421620\$d443adcf@oemcomputer>

MIME-Version: 1.0

Content-Type: text/plain;

charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

Thanks Steve,

Having never built an SMT project before, this will be interesting.

Do you use stick solder or a paste? Either way what do you recommend?

I was reading on another reflector where some guys were using toasters with the spring removed and paste<g>.

Thanks

73 de KM5CW Joe

FISTS #4217 QRPARCI #11368 NETXQRP#42

GRID-EM13kf

(<http://web.wt.net/~km5cw>)

_ _.- .-.. ..-

----- Original Message -----

From: "Steven Weber" <kd1jv@moose.ncia.net>

To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Sent: Friday, January 31, 2003 1:59 PM

Subject: Picture of Rock Mite Audio Filter board

> Just put up a picture of the R/M Audio filter. Just click on my URL below
> and scroll down a bit.
>
> While your there, check out my new multi-band DDS rig which fits in an
> Altoids tin!
>
>
> 72,
> Steve, KD1JV
> "Melt Solder"
> White Mountains of New Hampshire
> <http://www.qsl.net/kd1jv/>

Date: Fri, 31 Jan 2003 21:44:42 -0600
From: "Joe Martin" <km5cw@arrl.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [145567] Re: FOXX3 Project
Message-ID: <007201c2c9a4\$421e59a0\$d443adcf@oemcomputer>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Nice project, I noticed a pot on one side of the 14.060, how far is it
supposed to shift the freq?
thanks for the shots.

73 de KM5CW Joe
FISTS #4217 QRP/ARCI #11368 NETXQRP#42
GRID-EM13kf
(<http://web.wt.net/~km5cw>)

- _.- .-.. ..-

----- Original Message -----

From: "Bill Kelsey - N8ET - Kanga US" <kanga@bright.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Friday, January 31, 2003 4:42 PM
Subject: FOXX3 Project

> Since kit production at Kanga UK is on hold until the company is sold, I
> decided to see if I could build up an "Americanized" version of the FOXX3
> xcvr. I am waiting on the arrival of the 2N2907A final transistor from

Mouser -

> other than that, the FOXX3 for the Colonies is complete. Check it out at:
>
> <http://www.bright.net/~kanga/foxx3/>
> 73 - Bill - N8ET
> Kanga US
> kanga@bright.net
> <http://www.bright.net/~kanga/>
> 419-423-4604

Date: Fri, 31 Jan 2003 22:52:58 -0500
From: Ed Tanton <n4xy@earthlink.net>
To: QRP-L Reflector <qrp-l@lehigh.edu>,
noGA reflector <nogaqrp@mailman.qth.net>
Subject: [145568] Fwd: Near-Real-Time MUF Map
Message-ID: <5.2.0.9.2.20030131225137.01e9a1d0@pop.earthlink.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

Great MUF map, updated (it sez) every 5 MIN!

>Date: Fri, 31 Jan 2003 22:28:14 -0500
>From: Allen Bond <mgs4u@bellsouth.net>
>
>
>Hi Ed,
>
>Check out this and the Proplab Pro page!
>
>...Allen
>
>
><http://www.spacew.com/www/realtime.html>
>

73 Ed Tanton N4XY <n4xy@earthlink.net>

Ed Tanton N4XY
189 Pioneer Trail
Marietta, GA 30068-3466

website: <http://www.n4xy.com>

All emails <IN> & <OUT> checked by
Norton AntiVirus with AutoProtect

LM: ARRL QCWA AMSAT & INDEXA;
SEDXC NCDXA GACW QRP-ARCI
OK-QRP QRP-L #758 K2 (FT) #00057

Date: Fri, 31 Jan 2003 21:57:18 -0600
From: "George, W5YR" <w5yr@att.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>,
<kb7ww@easystreet.com>
Cc: "NETXQRP" <netxqrp@mailman.qth.net>
Subject: [145569] Re: Pesky Texans = New Rules !!!!!
Message-ID: <033101c2c9a6\$0477a820\$0201a8c0@fairviewtx.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Geeez, guys! All this commotion over a bunch of old codgers that have a little luck now and then! I just don't understand the problem here . . . we have already given up antennas; I guess next you will want us to all use straight keys and stay under 10 wpm! Or maybe listen with just one ear . . .

Speaking of old codgers, if I can remember to do it (since I am one myself!), I will obtain the combined ages of the NE-TX Tornados so you can see for yourself that we really are just some doddering old coots that still manage to copy a little CW when our hearing aid batteries are fresh.

I guess some other scoring schemes might be tried, but our approach is really pretty basic and I don't see how the scoring would change things much.

We simply operate on the basis that "if we can hear the Fox, we will work the Fox."

It really is just that easy . . .

By the way, if you want an entire evening of sparkling entertainment and multiple thrills, don't forget the annual Pesky Texan Armadillo Chase early in March. There will be twenty of those beasties to find and work. This year, your score is based not only on how many of us you can catch but how long it takes to do it. Our score is based only on how many of you guys we can each work, but we get the full two

hours to try.

Sound like fun?

73/72, George

Amateur Radio W5YR - the Yellow Rose of Texas

In the 57th year and it just keeps getting better!

Fairview, TX 30 mi NE of Dallas in Collin county EM13qe

K2 #489 IC-765 #2349 IC-756 PRO #2121 IC-756 PRO2 #3235

----- Original Message -----

From: "Arthur Moe" <kb7ww@easystreet.com>

To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>

Sent: Friday, January 31, 2003 5:49 PM

Subject: Pesky Texans = New Rules !!!!!

>

>

> palmer_t wrote:

> >

> > I reiterate: something needs to be done about the "Pesky Texans."

They

> > profess being old codgers who need all the advantages they can
muster, but

> > we know better!

>

> They already have an advantage. Location Location Location Location
!!!!!!

>

> >

> > Band conditions during last evening's hunt were exceptionally good
here from

> > SW Florida. I expect the "Swamp Rats" did well, but cannot
confirm 2 "clean

> > sweeps" for the Swamp Rats. We "Swamp Rats" need as many "clean
sweeps" as

> > possible because "The Underdogs" are creeping up on us - a pelt at
a time.

> >

> Yes, Tom "The Underdogs" are playing catch up !!!!! Now then what
can we do

> about those "Pesky Texans." Might we pressure the Rules Committee
to change

> the way the hunt is scored. Maybe instead of sending power as part
of the

> report we could send our time zone (Et, Ct, Mt, or Pt) then the Fox
could apply

> a Multiplier based on on the difference between his time zone and
the stations
> worked. If in same time zone 1x, two time away zones 2x, three time
zones 3x,
> four time zones 4x etc. Then this scores could be used to determine
which team
> wins.
>
> This would level the playing field for the Et and Pt zone stations
and put
> the "Pesky Texans" on notice that they will no longer have a leg up
on the
> rest of us.
>
> Submitted with tongue firmly in check.
> Art
> KB7WW
>

Date: Fri, 31 Jan 2003 22:30:33 -0600
From: "Mike Mullins" <mmullins@mastnet.net>
To: "QRP-L post message" <qrp-l@lehigh.edu>
Subject: [145570] How to support balanced feed line? (Responses)
Message-ID: <002201c2c9ab\$461a1420\$728ebbd0@downstairs>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Thanks to everyone who offered suggestions and encouragement: WB5YJX, AG5P,
AA1MY, and especially K5KVH. Here's a quick summary of the ideas:

- * Nylon cable ties or plastic bread ties
- * PVC - thread the lines through Tees
- * PVC - some angles have flanges designed for screws
- * PVC - use a short pipe section, drill one side and slot the other (see Wireman catalog)
- * Electric fence standoffs which are available in rural hardware stores
- * Use the 300 ohm twin lead standoffs

I should have the 20 meter vertical dipole on the air this weekend.

73 de Mike KD5CMN

Date: Fri, 31 Jan 2003 23:36:25 -0500
From: "Henry Freedenberg" <henryf@quartz.gly.fsu.edu>
To: fpqrp-1@mpna.com, qrp-1@Lehigh.EDU
Subject: [145571] Orlando Hamcation
Message-ID: <3E3B0879.13666.2F9A1E5@localhost>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT
Content-description: Mail message body

Who's going to Orlando next week?

Anyone up for a qrp meeting?

Henry

Date: Fri, 31 Jan 2003 23:36:25 -0500
From: "Henry Freedenberg" <henryf@quartz.gly.fsu.edu>
To: fpqrp-1@mpna.com, qrp-1@Lehigh.EDU
Subject: [145572] Comparator Questions-Inquiring minds want to know
Message-ID: <3E3B0879.17088.2F9A024@localhost>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT
Content-description: Mail message body

I am trying to rig up an audible warning to announce when the coolant temp in the van goes out of spec. I thinking about using either a 339 or 393 comparator. The spec sheet talks about the chip being able to handle a rather high voltage (32V I believe). I am unclear as to whether this refers to the Vcc or the op-amp input voltages.

Can I place 12 V at the inputs of the op-amp? How about current limiting...it the op-amp input impedance sufficiently high so that I won't need a current limiting resistor.

Can I use the output line to directly switch an audio device or do I need to use the output to switch something like a 3904?

Thanks

Henry

Date: Fri, 31 Jan 2003 23:46:01 +0000
From: ve3ab@mail.mondenet.com
To: qrp-l@Lehigh.EDU
Subject: [145573] Re: No secrets to supporting balanced lines in a number of ways
Message-ID: <200302010452.h114qR010789@barclay.mondenet.com>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT

I used electrical pvc pipe. It is grey and sold at big home improvement stores. I cut it into 3 ft long pieces. I then tied them with wire (lash up) to the tower. This allowed me to get the balanced feedline about 2 ft away from the steel tower. This method works ok. One of my plastic pipe standoffs slid out of its lashup and the feedline started touching the tower. Needless to say..my signal was way down in strength. This spring Ill make things more secure. I might even switch over to fiberglass instead of the plastic pipe. Those fiberglass 3 ft rectangular strips used in fencing..are both very tough and are meant for outdoor use. I might epoxy glue them together for extra strength. Ive also thought of using them for quad spreader arm extensions. The bottom line..is i like a good 2 ft separation from the steel tower. 73 earl VE3AB

Date: Fri, 31 Jan 2003 21:48:05 -0800
From: "Alan Kaul, W6RCL" <alan.kaul@worldnet.att.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [145574] Fw: Radio Shack Power Supply
Message-ID: <002e01c2c9b5\$81d3cc40\$b93ecd18@charterpipeline.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Around noon Friday there were 4 left in the Los Angeles City Center and North area. I bought one and the other three were at:

one was at the store 1817 Cesar Chavez (East LA) tel: 323-221-3636.

and there were two at the store on Hyperion (between Silver Lake and Los Feliz) tel 323-664-9433....

Good luck, 72/73 de alan

Alan Kaul, W6RCL, LaCanada, CA
w6rcl@amsat.org
<http://home.att.net/~alan.kaul/index.html>

----- Original Message -----

From: "brian" <brian@iquest.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Sent: Friday, January 31, 2003 17:38 PM
Subject: Re: Radio Shack Power Supply

> I just went to the shack, forgot my coupon...they pulled it up at
> 59.97, no coupon required as it is now listed as SOWG (Sold Out When
> Gone).

>

> This is one Jim Dandy of a Power Supply! 25A will run my whole setup.

>

> The 59.97 is in the computer until 03/02/03, have your local RS check
> stock, I found 27 total were available in Indy.

>

> 73

>

>

> ----- Original Message -----

> From: "KD5NWA" <KD5NWA@cbayona.com>
> To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
> Sent: Thursday, January 30, 2003 7:19 PM
> Subject: Radio Shack Power Supply

>

>

> > Does anyone have any experience using the Radio Shack 25 Amp power
> supply?

> > They have a coupon for it right now.

> >

> > Catalog Number:22-510

> > Regular Price:119.99 - With Coupon: 59.99

> >

> > <<http://www.radioshack.com/Coupons/Coupons.asp>>

> >

> > Offer good until 02/01/03

> >

> >

> > I need a supply for my workbench and the price seems right.

> >
> > Cecil
> > KD5NWA
> >
> >
> >
>
>

Date: Sat, 01 Feb 2003 05:07:20 -0500
From: Pete Burbank <plburbank@earthlink.net>
To: qrp-l@lehigh.edu
Subject: [145575] FOC contest
Message-ID: <5.2.0.9.0.20030201044506.00a23760@Earthlink.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

What is the FOC contest all about? Lots of nice signals here this AM but
can't find much
info on their website. (Other than the statement that reports are not just
5NN.....:-) :-))...ya right.
Lots of fun listening ...good code receiving practice. 40 meters is great
at 5 AM EST/
73
Pete
NV4V Kentucky

Date: Sat, 1 Feb 2003 05:11:38 -0600
From: "Cecilio A. Bayona" <KD5NWA@cbayona.com>
To: "QRL-L" <qrp-l@lehigh.edu>, <alan.kaul@worldnet.att.net>
Subject: [145576] RE: Radio Shack Power Supply
Message-ID: <FGEMLJDCBIMMILHGIBJIEEEHCDA.KD5NWA@cbayona.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I ended buying two of them, but one has noise on 80 meters. However I'm
really pushing it, it's sitting on top of my tuner and the coax cables touch
the power cables to the supply. Later tonight I'll move it to the floor and
add some ferrite cores, and check for bad solder joints...etc. Right now I'm

headed for the White Rock Chili Pepper Run, it's nippy out there!

-----Original Message-----

From: owner-qrp-1@Lehigh.EDU [mailto:owner-qrp-1@Lehigh.EDU] On Behalf Of Alan Kaul, W6RCL
Sent: Friday, January 31, 2003 11:48 PM
To: Low Power Amateur Radio Discussion
Subject: Fw: Radio Shack Power Supply

Around noon Friday there were 4 left in the Los Angeles City Center and North area. I bought one and the other three were at:

one was at the store 1817 Cesar Chavez (East LA) tel: 323-221-3636.

and there were two at the store on Hyperion (between Silver Lake and Los Feliz) tel 323-664-9433....

Good luck, 72/73 de alan

Alan Kaul, W6RCL, LaCanada, CA
w6rcl@amsat.org
<http://home.att.net/~alan.kaul/index.html>

----- Original Message -----

From: "brian" <brian@iquest.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Sent: Friday, January 31, 2003 17:38 PM
Subject: Re: Radio Shack Power Supply

> I just went to the shack, forgot my coupon...they pulled it up at
> 59.97, no coupon required as it is now listed as SOWG (Sold Out When
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> stock, I found 27 total were available in Indy.

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> 73

>

>

> ----- Original Message -----

> From: "KD5NWA" <KD5NWA@cbayona.com>
> To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
> Sent: Thursday, January 30, 2003 7:19 PM
> Subject: Radio Shack Power Supply

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> > Does anyone have any experience using the Radio Shack 25 Amp power
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> >
> > <<http://www.radioshack.com/Coupons/Coupons.asp>>
> >
> > Offer good until 02/01/03
> >
> >
> > I need a supply for my workbench and the price seems right.
> >
> > Cecil
> > KD5NWA
> >
> >
> >
>
>

Date: Sat, 1 Feb 2003 08:14:18 -0500
From: Haines Brown <brownh@hartford-hwp.com>
To: k5di@zianet.com
Cc: qrp-1@Lehigh.EDU
Subject: [145577] Re: PCB Software ???
Message-ID: <200302011314.h11DEIcv002071@hartford-hwp.com>

Karl,

I've access to Dia-0.90 under RedHat 8.0. While it seems a lot has changed since I last played with it in 2001, in the window that comes up, there's a drop down menu that by default is set to "Chonogram." If you drop down the menu, you will see a set of symbols for "Circuit." While there are only 30 symbols there by default, I suppose one could add custom symbols of your own. Don't recall if these are vector graphics.

Eagle (www.Cadsoft.de) is a commercial product, but with a freeware light version, which is limited to one-sheet schematics and one-layer PCB boards of small size, but it's extremely powerful (but with a notoriously difficult learning curve. That's where I am now, at the

beginning of the learning curve).

Haines KB1GRM

Date: Sat, 01 Feb 2003 08:11:06 -0500
From: Kenneth Cooperstein <cprstn54@att.net>
To: qrp-1@Lehigh.EDU
Subject: [145578] Astron SS-18 switching supply?
Message-ID: <3E3BC76A.B32B4883@att.net>
MIME-version: 1.0
Content-type: text/plain; charset=us-ascii
Content-transfer-encoding: 7BIT

Very few outfits stock this supply and it is not discounted like other supplies. It looks like just what the travelling ham would want: It is tiny -- half the volume of the 23-25 amp switchers from RS, Samlex and Astron. See:
<http://www.astroncorp.com/sps.shtml>

Is there some problem with this supply? 15 amps continuous is more than enough for my road & field needs, including my QRP amp.

Ken KC2JDY

Date: Sat, 01 Feb 2003 08:18:11 -0500
From: Kenneth Cooperstein <cprstn54@att.net>
To: qrp-1@Lehigh.EDU
Subject: [145579] Re: No secrets to supporting balanced lines in a number of ways
Message-ID: <3E3BC913.C5C4BC15@att.net>
MIME-version: 1.0
Content-type: text/plain; charset=us-ascii
Content-transfer-encoding: 7BIT

I was curious about how to support balanced line, so I wrote to the ARRL Tech Info Service. Below is the response, including my questions and the ARRL answer. In sum, you don't need to be all that careful about avoiding small metal objects.

Hi Ken,

<<< (1) Can it be stapled to wood studs with steel staples in the middle insulator?

yes, it can.. no problem.

<<< (2) Mine will run parallel to and 12" away from a galvanized A/C duct for 40 ft. Should I twist the ladderline? How often?

12" is good and half twist about every 18"

<<< (3) When crossing household wiring at a right angle, how close can I come to it?

6 - 8 "

<<< (4) Can it pass through (perpendicular) a small opening in a 2 square foot chicken-wire screen?

yes

<<< (5) Can I hook one side of it over a small steel hook used for strain relief near the feedpoint?

yes

Have a question? Look here first.
ARRL Technical Information Service Web Page
<http://www.arrl.org/tis/>
BOOKMARK THIS PAGE!

New Enhancement!
Check out the ARRL Periodicals Index Search
for displayed KEYWORDS and direct hyperlinks
to the articles and related TIS Topical Pages.

Thank you for using the ARRL Technical Information Service.

Albert Alvareztorres, Jr. AA1DO

Technical Information Service

ARRL, Inc.

Tel: 1-860-594-0214

225 Main St.

Fax: 1-860-594-0259

Newington, CT 06111

Email: tis@arrl.org

Email: aa1do@arrl.org

ARRL Home page <http://www.arrl.org/>

ARRL Technical Information Service page <http://www.arrl.org/tis>

AA1DO Personal Web <http://www.aa1do.com>

Date: Sat, 1 Feb 2003 08:58:21 -0500

From: "ss lyon" <sslyon@megalink.net>

To: <mmullins@mastnet.net>,

"Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>

Subject: [145580] support balanced feed line

Message-ID: <000b01c2c9f9\$fb3e50c0\$0ac8e742@megalink.net>

MIME-Version: 1.0

Content-Type: text/plain;

charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

I don't know your situation re supports, but I put my TV standoffs into tree trunks at about 7' ht. That allows for deer, moose etc. to pass under the wire. It also is at a point on the trunk that doesn't flex much in the wind. Note that the feed line must be free to slip, to keep tension evenly distributed. The line is firmly secured only at the ends... in my case 270' apart. Been up two yrs in the Maine woods.(ymmv) In all cases, put at least one half twist in the line between supports to minimize wind-whipping, or you'll suffer from the dreaded "FFF" syndrome. (frequent fatigue failures ;)

73

aa1my

Seabury & Sharon Lyon

99 Sparrowhawk Mtn Rd

Bethel ME, 04217 U.S.A.

207-836-2576

>

Date: Sat, 01 Feb 2003 09:31:26 -0500
From: "Bill, N4QA" <n4qa@hotmail.com>
To: qrp-l@Lehigh.EDU
Subject: [145581] DSWTUN03, release 0.90 ...
Message-ID: <BAY1-F7iwTwy8mBAD1k00005b36@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

DSWTUN03, release 0.90 adds X=R, R=X, X,R and <SWAP> functions...

73.
Bill, N4QA
<http://www.qsl.net/n4qa/>

The new MSN 8: smart spam protection and 2 months FREE*
<http://join.msn.com/?page=features/junkmail>

Date: Sat, 1 Feb 2003 09:39:43 -0500
From: "brian" <brian@iquest.net>
To: "Flying Pigs" <fpqrp-l@fpqrp.com>, "QRP-L" <qrp-l@Lehigh.EDU>,
"QRPP-l" <QRPP-I@yahooogroups.com>
Subject: [145582] 10 Turn Pots
Message-ID: <005501c2c9ff\$c333cab0\$816a2bd1@bmurrey2K>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I have 4 of these left for sale:

Bourns PN 3500S-2-503- NEW never used, these are not pulls.

50K Ohm 10-turn Precision Pots

Mouser lists this at over \$38 each in QTY of 25 or more.

I will sell these 8 to anyone interested for \$18.00ea

These are +/- 3% Res, and Lin +/- .2%

Shafts are 1/2 inch long, shaft diameter is 1/4 inch.

72

```
=====
KB9BVN/QRP - New Whiteland IN - EM69WN
QRP-ARCI #10223 QRP-L #1540 FIST #5695
FISTS CC #764 - Proud Member ARRL
HEATH HW-9 @ 2W or NORCAL 40A @ 1.3W
INTO INFAMOUS AF4PS ATTIC DIPOLE
SOC #400 AND FLYING PIGS QRP #-57
=====
```

```
-----
Date: Sat, 1 Feb 2003 08:39:42 -0600
From: "Rob Matherly" <w0jrm@arrl.net>
To: "Flying Pigs" <fpqrp-l@fpqrp.com>,
    "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>,
Subject: [145583] Tragic News...
Message-ID: <000701c2c9ff$c503cfc0$7211a541@jimrob>
MIME-Version: 1.0
Content-Type: text/plain;
    charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
```

Fyi, if you haven't seen the news yet. It appears as if the Space Shuttle Columbia has exploded over Texas upon re-entry. Nothing has been made official yet, but NBC is airing footage from a Texas affiliate of something falling from space and exploding (CBS is now also), the footage looking very similar to that of when Mir re-entered.

```
--
72/73/oo - Rob, w0jrm - w0jrm@arrl.net
ARRL, FPQRP -330, SOC #497, QRPp-I #19, IAQRP #143, ARS #1143, WATPK #1
http://www.qsl.net/w0jrm
```

"Feeling like a paper cup Floating down a storm drain"

Date: Sat, 01 Feb 2003 10:32:28 -0500
From: <mgoins@usa.net>
To: <qrp-l@lehigh.edu>
Subject: [145584] Alert
Message-ID: <876HBaPGC9232S20.1044113548@uwdvg020.cms.usa.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable

Guys,

Looks like the shuttle Columbia was lost roughly over the Dallas area earlier this morning on its landing approach. Details are sketchy at the moment, but it looks very bad. =

I am posting this because of the major concern from NASA here in Houston regarding any debris due to possible contamination from the fuel, etc. - = it can be very hazardous to health. It's likely some of the guys on this list who are in the Greater Dallas-Forth Worth-Plano area could be involved in communications assistance and/or recovery operations.

If you are a part of the search operation in the North Texas area, please be very careful.

Prayers here for all. =

=

mike
wb5yjx
managing editor
QRP Quarterly
QRP-ARCI 3922, SOC 54, Flying Pig 447, QRP-L 2130
Adventure Radio 810, Alaska QRP 514, QCWA 30857

Date: Sat, 01 Feb 2003 15:54:13 +0000
From: Larry Cahoon <lejek@erols.com>
To: qrp-1@lehigh.edu
Subject: [145585] USA-QRP
Message-ID: <5.1.0.14.0.20030201154345.0299a8f8@pop.erols.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

I didn't get a lot of replies this year to the request for status of those working the counties QRP, but I have updated the web site to reflect the number I got. USA-CA has only been done once all QRP - about 20 years ago by WD7N, Art, Labahn. It has never been done all CW.

The closest to finishing up is AA2AV who only needed 9 when I last got a count from him over two years ago. I don't think he is working on it very hard. He is doing it all CW. Next in line is WA4PGM, who needed only 14 more as of the end of the year. He is working on it actively, mixed mode, and now needs only 12 more.

The full list is up at the web site.

73 de Larry.....WD3P in MD
<http://www.wd3p.net/>

Date: Sat, 1 Feb 2003 09:59:20 -0600
From: Nick Kennedy <nkennedy@tcainternet.com>
To: "Low Power Amateur Radio Discussion (E-mail)" <qrp-1@Lehigh.EDU>
Subject: [145586] What's an IF transformer?
Message-ID: <01C2C9D8.979D9100.nkennedy@tcainternet.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit

OK, I'm kidding ... partly anyway. It's one of those little silver square boxes with four or five legs. And it's a transformer with a resonating cap across one winding to make it frequency selective. But a lot of people describe them as off-handedly as if they were fairly standard and interchangeable components. Once the frequency is specified, are they?

So the real question is, is there a standard turns ratio / impedance transformation ratio for IF transformers?

72--Nick, WA5BDU

Date: Sat, 1 Feb 2003 17:07:01 +0100
From: "Stephane Collas" <stephane.collas@wanadoo.fr>
To: <plburbank@earthlink.net>,
"Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [145587] Re: FOC contest
Message-ID: <009001c2ca0b\$f51832d0\$bc5e3351@f5nzy>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Pete,

FOC contest is the Marathon of the FOC.

<http://www.firstclassscw.org.uk>

73's de Steph, F5NZY, FOC #1737

----- Original Message -----

From: "Pete Burbank" <plburbank@earthlink.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Saturday, February 01, 2003 11:07 AM
Subject: FOC contest

> What is the FOC contest all about? Lots of nice signals here this AM but
> can't find much
> info on their website. (Other than the statement that reports are not just
> 5NN....:-) :-))...ya right.
> Lots of fun listening ...good code receiving practice. 40 meters is great
> at 5 AM EST/
> 73
> Pete
> NV4V Kentucky
>
>
>

Date: Sat, 01 Feb 2003 11:21:43 -0500 (Eastern Standard Time)
From: W2AGN <w2agn@w2agn.net>
To: qrp-1@lehigh.edu, plburbank@earthlink.net
Subject: [145588] Re: FOC contest
Message-ID: <3E3BF417.000021.28911@w2agn>
MIME-version: 1.0
Content-type: Text/Plain
Content-transfer-encoding: 7BIT

It's the "First Class Operator's Club" contest. I don't think they even speak to the likes of you and me. ;-)

+---+---+---+---+ John L. Sielke
|W||2||A||G||N| <http://www.w2agn.net> [UPDATED]
+---+---+---+---+ Ex-K3HLU,TF2WKT,W7JEF,W4MPC,N4JS

-----Original Message-----

From: plburbank@earthlink.net
Date: Saturday, February 01, 2003 11:00:22 AM
To: Low Power Amateur Radio Discussion
Subject: FOC contest

What is the FOC contest all about? Lots of nice signals here this AM but can't find much info on their website. (Other than the statement that reports are not just 5NN....:-) :-))...ya right.
Lots of fun listening ...good code receiving practice. 40 meters is great at 5 AM EST/
73
Pete
NV4V Kentucky

.

Date: Sat, 1 Feb 2003 10:27:34 -0600
From: George Fremin III - K5TR <geoiiii@kkn.net>
To: Pete Burbank <plburbank@earthlink.net>
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [145589] Re: FOC contest
Message-ID: <20030201102734.G20527@kkn.net>

Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Disposition: inline

On Sat, Feb 01, 2003 at 05:07:20AM -0500, Pete Burbank wrote:

> What is the FOC contest all about? Lots of nice signals here this AM but
> can't find much
> info on their website. (Other than the statement that reports are not just
> 5NN.....:-) :-))...ya right.

It is the FOC Marathon. It is a members only operating event.

You can find more info on the FOC here:

<http://www.firstclasscw.org.uk/>

--

George Fremin III - K5TR
geoiii@kkn.net
<http://www.kkn.net/~k5tr>

Date: Sat, 01 Feb 2003 11:33:25 -0500
From: David Hinerman <WD8CIV@worldnet.att.net>
To: qrp-l@lehigh.edu
Subject: [145590] Re: Comparator Questions-Inquiring minds want to know
Message-ID: <5.1.1.6.1.20030201110738.00b2ccb0@postoffice.worldnet.att.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

At 11:36 PM 1/31/2003 -0500, you wrote:

>I am trying to rig up an audible warning to announce when the coolant temp
>in the
>van goes out of spec. I thinking about using either a 339 or 393
>comparator. The
>spec sheet talks about the chip being able to handle a rather high voltage
>(32V I
>believe). I am unclear as to whether this refers to the Vcc or the op-amp
>input
>voltages.

Henry,

The online datasheet for the LM339 at Digi-Key's Web site:

<<http://rocky.digikey.com/WebLib/Texas%20Instruments/Web%20data/LM139,139A,239,239A,339,339,2901.pdf>>

shows a maximum supply voltage (V_{cc}) of 36 volts. The output of each comparator is an open-collector transistor that must be pulled up to V_{cc} with a resistor to provide a switched voltage, or that may be used to sink a current (up to 16 mA) to ground. The inputs may be anywhere between V_{cc} and ground.

>Can I place 12 V at the inputs of the op-amp?

Yes, as long as V_{cc} is 12 volts or higher.

> How about current limiting...it the op-
>amp input impedance sufficiently high so that I won't need a current
>limiting resistor.

Yes again. A common technique is to use a resistive voltage divider (or a pot) to set a threshold voltage (the setpoint) on one input. The voltage being compared is applied to the other input, possibly through another voltage divider if it's really high. Any time the voltage at the inverting input is higher (more positive) than the voltage at the non-inverting input, the output transistor switches on and pulls to ground.

>Can I use the output line to directly switch an audio device or do I need
>to use the
>output to switch something like a 3904?

If your audio device draws less than 16 mA, the comparator can switch it directly. Hook the low side (ground) to the comparator output. If you need more current you can drive a transistor buffer.

Since the comparator output actively pulls down but not up, think of it as a switch to ground (like a code key) and use a suitable transistor switching circuit. A lot of transmitter circuits use a PNP transistor like a 2N3906 for that application.

Dave

Dave Hinerman
WD8CIV@att.net

Date: Sat, 1 Feb 2003 11:41:13 -0500 (EST)

From: "Scott Rosenfeld [N7JI]" <ham@w3eax.umd.edu>
To: eax@w3eax.umd.edu
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [145591] Flachback to 1986
Message-ID: <Pine.LNX.4.44.0302011116090.18266-100000@w3eax.umd.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

In 1986, I was at lunch in high school when a friend and I left school and ran over to his house and watched in horrified awe and the images of Challenger being destroyed were shown over and over.

16 years later, and at different stage in my life, and at a different part of the flight, I was awakened to a different yet similar disaster.

The mind runs a million MPH when you see something like a piece of artwork such as the Columbia being destroyed, along with the tragic loss of life that goes with it.

--

Scott Rosenfeld ARS N7JI
541-684-9970 Eugene, OR Land o' much rain
If you find me on the air, I'm probably in my car
ham@w3eax.umd.edu <http://w3eax.umd.edu/~ham>

Date: Sat, 1 Feb 2003 17:49:02 +0100
From: "Sverre Holm - LA3ZA" <la3za@qsl.net>
To: <nkennedy@tcainternet.com>,
"Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [145592] RE: What's an IF transformer?
Message-ID: <000001c2ca11\$d5670af0\$8e00a8c0@Master>
MIME-Version: 1.0
Content-Type: text/plain;
charset="US-ASCII"
Content-Transfer-Encoding: 7bit

There seems to be a standard way of color coding the IF transformers,
see <http://zeus.cedcc.psu.edu/ind/tranif.html>

Sverre LA3ZA
www.qsl.net/la3za

> -----Original Message-----

> From: owner-qrp-1@Lehigh.EDU [mailto:owner-qrp-1@Lehigh.EDU]
> On Behalf Of Nick Kennedy
>
> So the real question is, is there a standard turns ratio / impedance
> transformation ratio for IF transformers?
>
> 72--Nick, WA5BDU
>
>

Date: Sat, 01 Feb 2003 11:47:22 -0500
From: Pete Burbank <plburbank@earthlink.net>
To: W2AGN <w2agn@w2agn.net>, qrp-1@lehigh.edu
Subject: [145593] Re: FOC contest
Message-ID: <5.2.0.9.0.20030201113052.00a203a0@Earthlink.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

John,
I did not even try HI! But it was fun to listen. 40 meters was really
quiet except for a few static crashes
and lots of great signals. I checked their website to figure out how to join
the fun but could
not find any info.
Tnx for the msg as it took my mind off the current space tragedy for a few
minutes
73
Pete NV4V

At 11:21 AM 2/1/2003, W2AGN wrote:
>It's the "First Class Operator's Club" contest. I don't think they even
> speak to the likes of you and me. ;-)
>
>
>
>+---+---+---+ John L. Sielke
> |W||2||A||G||N| <http://www.w2agn.net> [UPDATED]
> +---+---+---+ Ex-K3HLU,TF2WKT,W7JEF,W4MPC,N4JS
>
>-----Original Message-----
>
>From: plburbank@earthlink.net
>Date: Saturday, February 01, 2003 11:00:22 AM
>To: Low Power Amateur Radio Discussion

>Subject: FOC contest
>
>What is the FOC contest all about? Lots of nice signals here this AM but
>can't find much
>info on their website. (Other than the statement that reports are not just
>5NN....:-) :-))...ya right.
>Lots of fun listening ...good code receiving practice. 40 meters is great
>at 5 AM EST/
>73
>Pete
>NV4V Kentucky
>
>
>
>.

Date: Sat, 01 Feb 2003 10:55:46 -0600
From: "Merton Nellis" <mertnellis@msn.com>
To: qrp-1@lehigh.edu
Subject: [145594] RE: W0UFO FOX
Message-ID: <F18ZWektquRxmbG7Awi0000169f@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

I was asked:
<What were you using for a radio and antenna?

>--
>George Fremin III - K5TR

W0UFO FOX was using an FT840 at 5W to coax to an inverted V tuned dipole
with my UFO current balun at the feed point. Apex at about 40 ft and
bottom ends about 15 feet above ground. I tried a zepp fed 120ft wire for
last 15 mins or so but it seemed more noisy than the dipole.

Thanks for contacts, Mert W0UFO MNQRP

MSN 8 helps eliminate e-mail viruses. Get 2 months FREE*.
<http://join.msn.com/?page=features/virus>

Date: Sat, 1 Feb 2003 11:29:53 -0600
From: Nick Kennedy <nkennedy@tcainternet.com>
To: "Low Power Amateur Radio Discussion (E-mail)" <qrp-1@Lehigh.EDU>
Subject: [145595] Gooney gray pudding reactance calculator
Message-ID: <01C2C9E5.3DCF8860.nkennedy@tcainternet.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit

When I was back in school, some of the guys claimed that this one old Chinese professor had the table of logarithms memorized. That's ridiculous of course, but he was pretty amazing at cranking out pretty close estimates in his head.

But in all my experimenting and self study of the past few years, I still haven't developed a facility for taking a capacitor or inductor and a frequency and coming up with a good approximation of its reactance in my head. Some people can do it and I wondered how.

Looking first at the somewhat easier inductance formula, $X_L = 2\pi L F$, or $6.28 \times L \times F$. So we who are interested in uH and MHz can say that the inductance is 6.28 ohms per uH per MHz. (That's cause the $1E-6$ of uH and $1E+6$ of MHz cancel.) If your noggin doesn't have a three digit register, call it 6.3 ohms with just a slight reduction in accuracy or even 6 ohms with just 4.4% error. Let's try one. I have a 5 uH inductor and I want to see what X_L is on 7 MHz. The answer is about 6 times 5 equals 30, and then that times 7, or 210 ohms. Maybe I'll leave it at that or maybe I'll get tricky and remember that this is a 5% low approximation. 5% of 200 is 10, so let me get super-precise and add that in and call it 220 ohms. OK, now may I have the envelope and see how close I got. And the answer is 219.9 ohms!

Let's try a harder one now. A 47 uH inductor at a frequency of 3.5 MHz. Ugh, 47! I'm gonna call it 50. In fact, on brief reflection, that fudges it up 6% and more than compensates for the other fudge factor. OK, 50 times 6 is 300 as the intermediate product. Now the hard part, 300 times 3.5 in the head. Well, it's not too hard ... 3 times 3.5 is 10.5, add two more decades to get 1050 ohms. OK, lets we what mssrs Hewlett & Packard (of HP-48) have to say ... 1033.6 ohms. So the organic method got within 1.6%. I'd have been satisfied with 10 or 20%!

So inductors are kid's stuff--take the uH times 6 times the frequency in MHz. Capacitors are a different story ... division, ack!

$XC = 1/(2 \cdot \pi \cdot C \cdot F)$. In this case, we're interested in pF and MHz for our HF ham work. We need a constant to deal with like the 6 in the inductance rule. Let the constant absorb the 2, the PI, and the powers of 10 in the pF and MHz and just leave is with integer values of pF and MHz to confront.

So, $1/(2 \cdot \pi \cdot 1E6 \cdot 1E-12) = 159,154$. So $XC = 159,154$ divided by (C in pf times F in MHz). That numerator is still an ugly number. Lets say 160 k-ohms *pF * MHz is the constant. So to figure XC, take 160 k-ohms, divide by C in pf and divide again by F in MHz.

OK, what's the reactance of 120 pF at 21 MHz? What's 160k divided by 120?

I dont' know. Let's divide by the 21 first, only I'm calling it 20 due to limitations of my CPU. 160 divided by 20 is 8. That's 8k, remember. I don't want to have to deal with a fraction and have 4th grade anxieties all over again, so I'm converting from k-ohms to ohms here. So what I have left is 8,000 ohms divided by 120. Depending on how good you are at getting your decimals in the right place, you can come up with about 70 for an answer. This isn't going to be nearly as accurate as my XL results, because division is harder. Calculator says ... 63.2 ohms. My estimate is 11% high. I'll take it.

Less verbose version of the XC internal method: Take 160 k-ohms, divide by C in pF, divide by F in MHz.

Another method from back in the stone age was the nomograph. There was a logarithmic frequency X axis and a log reactance Y axis. Lines for discrete capacitance values ran diagonally from upper left to lower right, and lines for inductance values ran the other way, at right angles to the capacitance lines. This chart was cool because you could interpolate and look up an approximate value of reactance at any for any component value, or do the reverse. But an added bonus was that you could look the points where the lines intersected and see the resulting resonant frequency value for a pair of L,C values. I recently made up a chart of data in Excel for this and after some head banging, got it to make me a graph which is the nomograph I described above. Printed and posted next to my workbench--now maybe I won't have to walk over to the PC or dig out my calculator as often as I do now.

If a chicken and a half laid an egg and a half in a day and a half, how many pancakes would it take to shingle a doghouse?

72 (approximately) --Nick, WA5BDU
in Arkansas

Date: Sat, 1 Feb 2003 11:54:07 -0600
From: "Larry" <w5wlb@gbonline.com>
To: "Qrp-1" <qrp-1@lehigh.EDU>

Subject: [145596] Koss Headphones
Message-ID: <000501c2ca1a\$eb947250\$d6d1fdd8@yourx6k5fonaok>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Just picked up a pair of those koss headphones for 10 bucks at the local
radio shack. They are very very comfortable on the ears.
W5wlb

Date: Sat, 1 Feb 2003 13:55:04 -0500
From: "Ken Simpson, W8EK" <W8EK@fdt.net>
To: "QRP List" <qrp-l@lehigh.edu>
Subject: [145597] TenTec "Goodies" FS
Message-ID: <NGBBLMCL0LBPLBFNJPMACNDCAA.W8EK@fdt.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

TenTec accessories For Sale:

TenTec 252 M power supply, 20 amp, 13 V DC supply.
Matches the Triton IV series of transceivers. It has an
ammeter on front. Good condition, with manual for \$ 100

TenTec 262 power supply, 20 amp, 13 V DC
Cosmetics match the Triton I and II series (walnut wood grain
and eggshell), but can be used with almost any HF rig. It
originally had VOX built in to it, but the VOX has been
disconnected, as it never worked well, and picked up RF.
Nice shape, with paper work for \$95

TenTec 248 noise blanker.
This is the noise blanker that goes in the Omni 546 or 545.
This one has all the paper work with it, for \$50.

TenTec 245 CW filter.
Fits any of the Triton series (I, II, IV, 540, and 544), and
has up to 3 levels of filtering (as narrow as 150 Hz).
With the paper work for \$50.

TenTec 705 desk microphone.
Four pin plug, matches most all of TenTec rigs. This is

the current desk microphone TenTec is selling.
In very nice condition, with paper work for \$69

Prices do not include shipping from Florida.

Thanks.

73,

Ken, W8EK

Ken Simpson
E-Mail to W8EK@fdt.net or W8EK@arrl.net
Voice Phone (352) 732-8400

Date: Sat, 1 Feb 2003 12:55:49 -0600
From: "W8TIF - Karl" <kkanalz@gcecispc.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [145598] Re:I.F. transformer turns/impedance
Message-ID: <000b01c2ca23\$8a120ca0\$921a0ed0@HamShack>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Nope! Sorry, Nick, but there are no "standard" turns ratio/impedance transformation ratio(s) for i.f. transformers!

Uh-huh! It all depends on the circuit(s) in which you are using the transformers, and they aren't necessarily in "little silver square boxes" either! They can be open toroids or ferrite pot-cores, too!

With valve (hollow-state) circuits, the primary-to-secondary turns ratios will be different from those used for solid-state device circuits (plate/anode impedance versus collector/drain impedances).

I.F. transformers don't always have an internal resonating capacity, and for tube-type circuits, they are usually external to the i.f. transformer.

For solid-state devices, especially if you're using "Toko" brand i.f. transformers, the resonating capacitor is usually internal to the transformer shield.

Karl K - W8TIF
McKinney, Texas

----- Original Message -----

From: "Nick Kennedy" <nkennedy@tcainternet.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Sent: Saturday, February 01, 2003 9:59 AM
Subject: What's an IF transformer?

> OK, I'm kidding ... partly anyway. It's one of those little silver square
> boxes with four or five legs. And it's a transformer with a resonating
cap
> across one winding to make it frequency selective. But a lot of people
> describe them as off-handedly as if they were fairly standard and
> interchangeable components. Once the frequency is specified, are they?
>
> So the real question is, is there a standard turns ratio / impedance
> transformation ratio for IF transformers?
>
> 72--Nick, WA5BDU

Date: Sat, 1 Feb 2003 14:19:34 -0500
From: "Tom" <kf4yyd@adelphia.net>
To: "qrp-1" <qrp-1@lehigh.edu>, "NoVAQRP" <NoVaQRP@topica.com>
Subject: [145599] ZM-2 or SW-40+ trouble
Message-ID: <EIEBLEILGEEGMLHGHOAGMEAJCDA.kf4yyd@adelphia.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hello All,

I have a question on the ZM-2 hopefully someone can help with. I finally got around to building a dipole and have it set up (temporarily until the wife sees it) as an inverted V and being fed with 300 ohm twin lead. The rig is a SW-40+ that has never been tested or checked out other than listening with it.

The antenna itself is only up about 20 feet, less than optimal I know, the center support is two 2 inch pieces of scd 40 pvc.

After finding a signal I seem to be able to adjust both caps for the best reception. Both seem to be at around position 8 for what it's worth. However, when I move the TUNE/OPERATE switch to TUNE and key the transmitter I can't seem to get the LED to dim at all. No matter what I do the LED stays at full brightness, and boy is that thing bright when you look at it straight on.

As for the rig itself I'm not sure exactly what part of the band I'm listening to with the exception of I know approx. where 7.0415 is because I copied W1AW's code transmission (and marked the dial) last night at 1900. It's not out of the question that the rig is at fault because I have no way or even the knowledge to check it out other than hooking up an antenna. One thing I have noticed is that I have to turn the RF Gain control up 3/4 to full in order to hear much.

Anybody have any suggestions other than find a new hobby?? I been wanting to get on the air since I built this thing about three years ago and still haven't accomplished my goal.....

Tom kf4yyd
Fredericksburg, Va.

Date: Sat, 1 Feb 2003 14:3:27 -0600
From: "Doc K0EVZ" <dock0evz@earthlink.net>
To: "qrp-l reflector" <qrp-l@lehigh.edu>,
"Elecraft " <elecraft@mailman.qth.net>
Cc: "doc k0evz earthlink" <dock0evz@earthlink.net>
Subject: [145600] Who had K2/100 for sale?
Message-ID: <4120032612032727@earthlink.net>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII

Friends:

Someone listed an Elecraft K2/100 for sale. Must have deleted the message here. Can someone please let me know who that seller is? Many thanks in advance.

73,
--Doc/K0EVZ

Date: Sat, 1 Feb 2003 14:12:45 -0600
From: "Doc K0EVZ" <dock0evz@earthlink.net>
To: "qrp-l reflector" <qrp-l@lehigh.edu>,
"Elecraft " <elecraft@mailman.qth.net>
Cc: "doc k0evz earthlink" <dock0evz@earthlink.net>
Subject: [145601] Got reply re K2/100 already [g]
Message-ID: <412003261201245740@earthlink.net>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII

Friends:

Have already heard back. Many thanks one and all.

73,
--Doc/K0EVZ

Date: Sat, 01 Feb 2003 21:16:29 +0100
From: Ingo Meyer DK3RED <dk3red@gmx.net>
To: qrp-l@Lehigh.EDU
Subject: [145602] Re: What's an IF transformer?
Message-ID: <5.1.1.6.1.20030201203657.009f0260@pop.gmx.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

Hello Nick,

>So the real question is, is there a standard turns ratio / impedance
>transformation ratio for IF transformers?

No. ;o)

You receiver front end will receive more than the nessecary 500 Hz (by CW), so you need selection.

"Data book for homebrewers and QRPers" by Paul Harden NA5N:

A L-C resonant circuit is a band pass filter in that its peak energy will be at the resonant frequency and attenuate all others. Thus, its response shape will be a sharp "bell curve". The higher the Q, the sharper the response. The first level of Band pass filtering to the mixer output is a transformer. The transformer and a capacitor form a parallel resonant circuit turned for the (i.e. 12 MHz) IF. With a loaded Q of about 100, the bandwidth of the IF transformer is 120 kHz $BW=f/Q$.

From me:

The ratio is determine by the output impedance of the circuit part in front and the input impedance of the following circuit part. I.e. you use a NE602 or 612 as mixer, an IF filter as transformer and a crytal filter as IF filter. The output of the mixer is 1500 ohms and the input of a typical crystal filter is about 300 ohms. You can use/transport the most power only if the impedances are equal. The ratio of the impedances is 5 . The turn ratio is the root of 5 (~2.24).

Other mixer and/or other filter have different impedances, so the ratio is different from rig to rig.

The next selection step is the IF itself (i.e. a crystal filter).

Hope it helps a little bit.

72/73 de Ingo, DK3RED Don't forget: the fun is the power!

dk3red@t-online.de	http://www.t-online.de/~dk3red
DL-QRP-AG #824	http://www.dl-qrp-ag.de
QRP ARCI #11295	http://www.qrparci.org

Date: Sat, 1 Feb 2003 16:01:32 -0500
From: "Tom" <thom2@worldnet.att.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [145603] Does anyone Really live in Delaware??
Message-ID: <005701c2ca35\$1ba87ee0\$48814f0c@1xjhu>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi,

Has anyone heard any activity regarding the Delaware QSO party? I'd really like to bag a 2xqrp from DE.
Haven't heard any activity at all here in New York.

Thanks
Tom McCulloch, WB2QDG

Friend of Bill W.
--- If you are too, drop me a line.

-----Original Message-----

From: Ken Newman <N2CQ@Dandy.Net>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Date: Thursday, January 30, 2003 10:10 AM
Subject: [CONTEST] N2CQ QRP Contest Calendar - Feb 2003

>

>~~~~~

>N2CQ QRP CONTEST CALENDAR

>February 2003

---snip ---

>~~~~~

>Delaware QSO Party (All)

>Feb 1 - 1700z to Feb 2 - 0500z

>Feb 2 - 1300z to Feb 3 - 0100z

>Rules: <http://www.fsarc.org>

--snip---

>Please send your sprint or contest info to: N2CQ@ARRL.NET

>We will include it in the calendar.

>Thanks to WA7BNM, SM3CER, N0AX/ARRL and others for assistance in

>compiling this calendar.

>

>Anyone may use this "N2CQ QRP Contest Calendar" for your website,

>newsletter, e-mail list or other media as you choose.

>(Include a credit to the source of this material of course.)

>

>72 de

>Ken Newman - N2CQ

>N2CQ@ARRL.NET

>

>**** N2CQ QRP Contest Calendar ****
><http://www.njqrp.org/data/contesting.html>
><http://www.n3epa.org/Pages/Contest/contest.htm>
> <http://www.qsl.net/cqrp/contests.html>
>

Date: Sat, 1 Feb 2003 15:03:43 -0600
From: "Dave Redfearn" <n4elm@attbi.com>
To: "Low Power Amateur Radio Discussion \ (E-mail\)" <qrp-l@lehigh.edu>,
"Ten-Tec Mail list \ (E-mail\)" <tentec@contesting.com>
Subject: [145604] FS: Ten-Tec Century 22 & accessories
Message-ID: <000201c2ca35\$67aa59d0\$016fa8c0@Pavillion>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

For Sale:

Ten-Tec Century 22 HF Transceiver

Covers 80, 40, 30, 20, 15, & 10 Meters
Direct conversion receiver, analog dial,
Runs about 20 watts output CW.

Includes optional # 226 crystal calibrator,
matching Model # 979 Power supply, manual, and box.

Radio is in very good condition, everything works,
minor wear on the case, front panel is very clean

The dial cord has been re-strung and the PTO re-greased recently.

Asking \$325.00 + shipping from 75070

73 - Dave

=====
Dave Redfearn, ARS N4ELM, McKinney, TX
Email: n4elm@NOJUNKattbi.com (to reply, remove NOJUNK)
QRL? de N4ELM/qrp

Date: Sat, 01 Feb 2003 15:44:58 -0500
From: Steven Weber <kd1jv@moose.ncia.net>
To: qrp-1@lehigh.edu
Subject: [145605] Copper crystals
Message-ID: <3.0.6.32.20030201154458.007b2860@mailhost.ncia.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Remarkable.

I've been using and re-using my ferric-chlorided solution so much, it's become supper saturated. Normally, I pour the solution back in the bottle as soon as the board is etched, but for some reason, I let it sit in the etching tray for a few days.

Today, I thought I better pour it back into the bottle, before I had an accident and a mess. Well, when I did, I found I had grown quite a batch of crystals! Wish I could take a good close up picture of them, they look pretty neat.

72,
Steve, KD1JV
"Melt Solder"
White Mountains of New Hampshire
<http://www.qsl.net/kd1jv/>

Date: Sat, 1 Feb 2003 14:19:36 -0800
From: Mark Schoonover <schoon@amgt.com>
To: "Low Power Amateur Radio Discussion (E-mail)" <qrp-1@Lehigh.EDU>
Subject: [145606] Can You Help Me ID These Parts??
Message-ID: <BF889CEBEFD2D511B993009027F60ABE4F65CB@AG-JASMINE-NT4>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

Thanks for reading my post!! I got a hold of a retired high current 24v power supply. It looks like it was a high current battery charger. Anyways, I've been able to ID most of the parts, but I have a few SCRs - I'm pretty sure they are SCRs - with part numbers that google draws a blank on. The best that I can tell, they are all manufactured by Westinghouse, and are all big stud mount jobs that were on huge heatsinks. Most of the studs are 3/4", and one of them is 1" in size. Here's the numbers:

T510035007AQ 7833
T507037084AQ 7924

T610041804B7 7849
18M60 7652
50R1A60 8034
50R1A60 A60

If you can help me find the specs on these, thanks in advance!!

72 .mark

Give a man a match, and he'll be warm for a minute, but set him on fire, and he'll be warm for the rest of his life.

Date: Sat, 1 Feb 2003 17:54:08 EST
From: NOBN@aol.com
To: qrp-1@lehigh.edu
Subject: [145607] OT Columbia
Message-ID: <6e.29d3f7fc.2b6daa10@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="ISO-8859-1"
Content-Transfer-Encoding: quoted-printable

I don't often send out mass e-mails but wanted to share an old favorite=20
Heinlein poem with my QRP friends who are probably grieving as much or more=20
than I am from the loss of the Columbia and its crew today.

I learned to love space flight as a child in the 50s and 60s when this all=20
began, and the science fiction of Robert Heinlein played a big part in that.=
=20

We belong out there and we are lucky to live when it's starting. We should=20
all try to find and live out our dreams. Having had my Mother die just thre=
e=20

months ago yesterday, and thus having death hit very close to home, I am=20
comforted they were exactly where they wanted to be and doing exactly what=20
they wanted to do.

Daniel N=D8BN

The Green Hills of Earth=20

Let the sweet fresh breezes heal me
As they rove around the girth

Of our lovely mother planet
Of the cool, green hills of Earth.

We rot in the moulds of Venus,
We retch at her tainted breath.
Foul are her flooded jungles,
Crawling with unclean death.

[--- the harsh bright soil of Luna ---
--- Saturn's rainbow rings ---
--- the frozen night of Titan ---]

We've tried each spinning space mote
And reckoned its true worth:
Take us back again to the homes of men
On the cool, green hills of Earth.

The arching sky is calling
Spacemen back to their trade.
ALL HANDS! STAND BY! FREE FALLING!
And the lights below us fade.

Out ride the sons of Terra,
Far drives the thundering jet,
Up leaps a race of Earthmen,
Out, far, and onward yet ---

We pray for one last landing
On the globe that gave us birth;
Let us rest our eyes on the friendly skies
And the cool, green hills of Earth.

-- Robert A. Heinlein
=20

End of QRP-L Digest 2818

